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**To:** Provost and Chief Academic Officers

**CC:** Mathematics Chairs/Leads

**From:** Dr. Ricardo Moena Faculty/Lead, Ohio Transfer Module Mathematics, Statistics, and Logic Review Panel/ Subgroup 2 of the Ohio Mathematics Initiative Chairs/Leads Network

**Date:** October 30, 2020

**Subject:** Request for Your Institutional Endorsement for the Proposed Learning Outcomes for Ohio Transfer Module TMM024 (Life Science Calculus I) and TMM025 (Life Science Calculus II)

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### Background:

The Ohio Transfer Module (OTM), Subgroup 2, Mathematics, Statistics, and Logic have been tasked with exploring the possibility of a sequence of Life Science Calculus courses. The proposed two-semester sequence (TMM024 & TMM025) is intended for students majoring in the biological or environmental sciences and/or preparing for admission to medical, pharmaceutical, dental, veterinary or other life-science-related professional schools. These courses are adapted from the MAA/CUPM 2015 curriculum guide.

The proposed Life Science Calculus I (TMM025) learning outcomes are based on college level mathematics. TMM024 serves the following purpose:

- Serve as a pre-requisite for Life Science Calculus II (TMM025)
- Act as a course integrating limits, derivatives, and integrals to describe and gain insight into biological processes and populations.
- Act as a course modeling concepts from the life sciences that include: Algebraic, logarithmic, and exponential.

Life Science Calculus II (TMM025) learning outcomes are also based on college level mathematics. TMM025 serves the following purpose:

- Act as a course integrating limits, derivatives, integrals and differential equations to describe and gain insight into biological processes and populations.
- Act as a course modeling concepts from the life sciences that include: Algebraic, logarithmic, exponential, and trigonometric functions.

**What we need from you:**

Subgroup 2 seeks endorsement of the proposed learning outcomes for TMM024 & TMM25. Please review the proposed learning outcomes and coordinate efforts within your institution to complete the endorsement survey to determine if your institution agrees or disagrees with the proposed course learning outcomes. We are collecting only one response per institution.

Please provide your institutional response by **November 30, 2020**. The survey link is:

<https://www.surveymonkey.com/r/THXDZW6>

**Important Note:** Institutions must complete the survey via the link provided above. The attached PDF file is for reference only. Do not use the PDF version to respond to the survey.

Thank you in advance for your assistance. If you have any questions, please contact the faculty lead for the Ohio Transfer Module Mathematics, Statistics, and Logic Review Panel/Subgroup 2, Dr. Ricardo Moena at [ricardo.moena@uc.edu](mailto:ricardo.moena@uc.edu) or (513) 556-4055 or Jessi Spencer, Director of Articulation and Transfer Policy, Budget, and Constituent Relations at [jspencer@highered.ohio.gov](mailto:jspencer@highered.ohio.gov) or (614) 728-4706.

Attachments (2)